ORDER NO.SIMMC 0301003A1
E1

Service Manual

Microwave Oven

Simplified

NN-T793SF
NN-T783SF
NN-T763SF
NN-S763BF
NN-S763WF
NN-S753BF
NN-S753WF
NN-S743BF
NN-S743WF

APH(USA)

CPH(CANADA)

Please file and use this specified manual together with the service manual for Model NN-S560BF/WF(ORDER NO. SIMMC0001002C3).

Specifications:

Models: / Specifications:	T793 APH	T783 APH	T763 APH	S763 APH	S753 APH	S743 APH	T793 CPH	S763 CPH	S753 CPH
Power Source:	120V AC Single Phase, 60Hz								
Power Requirement:	1460W	1460W	1460W	1460W	1460W	1460W	1460W	1460W	1460W
Output(IEC705-88):	1350W	1350W	1300W	1350W	1350W	1300W	1250W	1250W	1250W
Microwave Frequency:	2450MHz								
Timer:	30 min. / Stage (HIGH Power) ~ 5 Stage Maximum 99 min. 99 sec. / Stage (Other Power Levels) ~ 5 Stage Maximum								
Outside Dimensions:	$21\frac{7}{8}$"(555mm)(W) x $19\frac{9}{16}$"(497mm)(D) x $11\frac{15}{16}$"(301mm)(H)								
Oven Cavity Dimensions:	$16\frac{7}{16}$"(418mm)(W) x $18\frac{1}{2}$"(470mm)(D) x 9"(228mm)(H)								
Weight:	31 lbs. / 14.3kg								
PbF	This product with PbF								
Output power: IEC705-88 Test Procedure									
Specifications subject to change without notice.									

Panasonic®

© 2003 Shanghai Matsushita Microwave Oven Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING

1. This product should be serviced only by trained, qualified personnel.
2. Though this product has been manufactured in compliance with:
   "Federal Performance Standard 21 CFR Subchapter J"(D.H.H.S): U.S.A. models
   or "Radiation Emitting Devices Act"(Health and Welfare Canada): Canadian models
   it is very important all repairs should be made in accordance with procedures described in this manual to avoid being exposed to excessive microwave radiation.
3. Check for radiation leakage before and after every servicing according to the "procedure for measuring radiation leakage."
4. If the unit cannot be repaired on site, advise the customer not to use until unit is repaired.
5. Any serviceman who learns of any accident pertaining to microwave radiation leakage including the oven operating with open door should immediately notify the appropriate address listed below and Center for Devices and Radiological Health, DHHS.

IN U.S.A. (PASC)	Panasonic Services Company 50 Meadowland Parkway, Secaucus, New Jersey 07094 Attention: Technical Service Division. (201)348-7000	IN PUERTO RICO (PSC)	PSC San Gabriel Industrial Park 65th Infantry Ave. Km.9.5 Carolina, Puerto Rico 00985 (787)750-4300
		IN CANADA (PCI)	Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario, L4W2T3 (905)624-5010

6. There are special components used in the microwave oven which are important for safety. These parts are marked with a ⚠ on the replacement parts list. It is essential that these critical parts should be replaced only with the manufacture's specified parts to prevent microwave leakage, shock, fire, or other hazards. Do not modify the orginal design.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(A) Do not operate or allow the oven to be operated with the door open.
(B) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
   (1) Interlock operation
   (2) Proper door closing
   (3) Seal and sealing surfaces (arcing, wear, and other damage)
   (4) Damage to or loosening of hinges and latches.
   (5) Evidence of dropping or abuse
(C) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, waveguide or transmission line, and cavity for proper alignment, integrity and connections.
(D) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
(E) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

CAUTION

About lead free solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:
- Pb free solder has a higher melting point than standard solder; Typically the melting point is 30 - 40˚C higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 370 ± 10˚C.
- Pb free solder will tend to splash when heated too high (about 600˚C).

DANGER OF HIGH VOLTAGE AND HIGH TEMPERATURE (HOT/LIVE) OF THE INVERTER POWER SUPPLY (U)

INVERTER WARNING

This Inverter board looks like a regular PCB. However, this PCB drives the magnetron tube with extremely high voltage and high current. NEW H.V.

IT HAS:

1. **Very high voltage and high current circuits.**
   It functions the same as the high voltage transformer and high voltage capacitor in ordinary microwave ovens.
2. **Aluminum heat sink is energized with very high voltages and high heat energy.**
3. **Very high voltage may remain in circuitry even when oven is off. High voltage may remain in the capacitors on the board.**

DO NOT:

* 1. **Do not touch circuitry because it has very hot (high voltage) circuitry. Even when replacing board, extreme care should be taken to avoid possible electric shock hazards. High voltage may remain in circuit.**

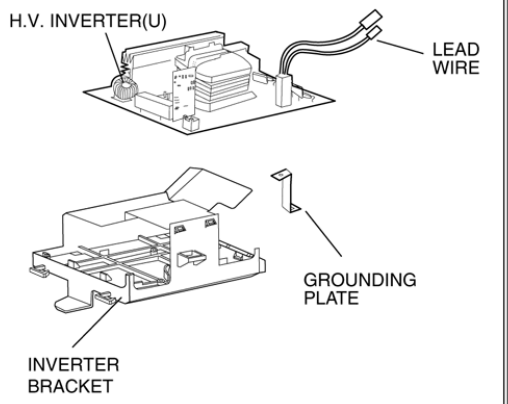
* 2. **Do not touch aluminum heat sink because it is very hot in high voltage and also very hot in high heat energy.**

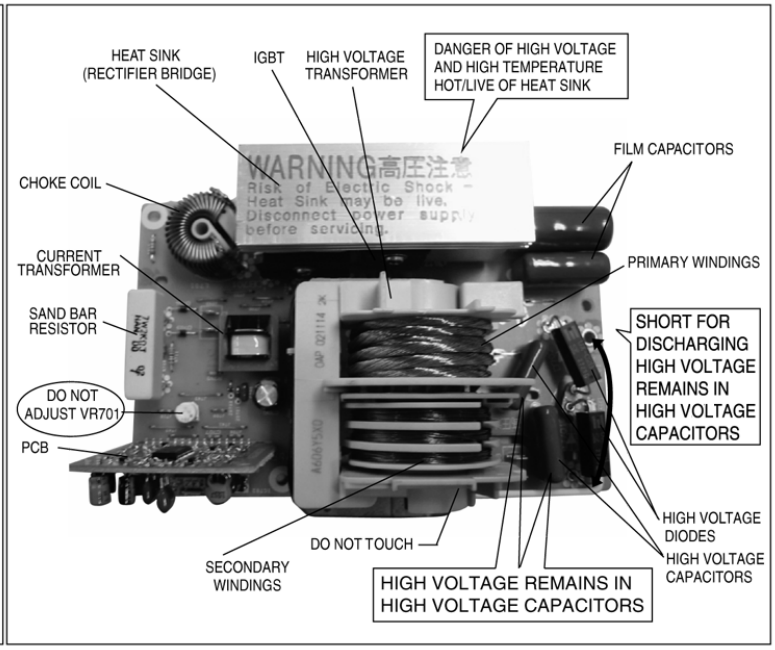
* 3. **Do not try to adjust or tamper with preset volume on the Inverter board because it is very dangerous to adjust without proper test equipment.**

* 4. **Do not test oven while Inverter grounding plate or screws are loose. It is very dangerous to operate H.V. Inverter Circuit (U) with loose mounting screws or if improperly grounded.**

* 5. **For USA only:**
Do not try to repair Inverter PCB because it is very dangerous to repair it. Replace as whole High Voltage Inverter Circuit unit and return fully re-packed with original shipping box and shipping materials.

INVERTER POWER SUPPLY

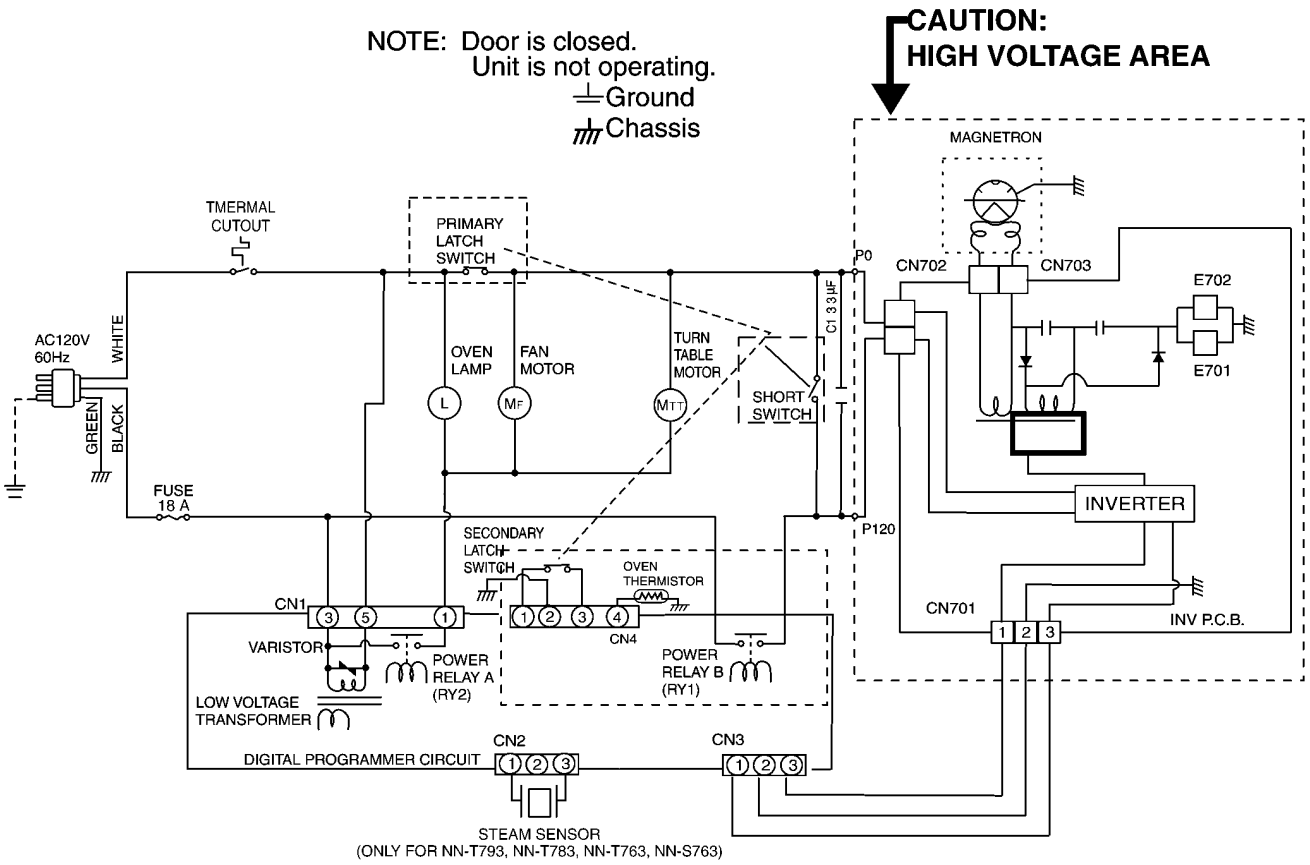




CONTENTS

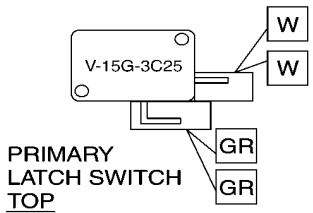
	Page
1 SCHEMATIC DIAGRAM (APH)	5
2 SCHEMATIC DIAGRAM (CPH)	6
3 MEASUREMENTS AND ADJUSTMENTS	7
4 PROCEDURE FOR MEASURING MICROWAVE ENERGY LEAKAGE	8
5 EXPLODED VIEW AND PARTS LIST	9
6 PARTS LIST	10
7 ESCUTCHEON BASE ASSEMBLY (NN-S*** APH/CPH)	11
8 ESCUTCHEON BASE ASSEMBLY (NN-T*** APH/CPH)	12
9 PACKING AND ACCESORIES	13
10 DOOR ASSEMBLY	14
11 WIRING MATERIALS	14
12 DIGITAL PROGRAMMER CIRCUIT (NN-T793 APH/CPH)	15
13 DIGITAL PROGRAMMER CIRCUIT (NN-T783 APH, NN-T763 APH)	17
14 DIGITAL PROGRAMMER CIRCUIT (NN-S763 APH/CPH, NN-S753 CPH)	19
15 DIGITAL PROGRAMMER CIRCUIT (NN-S753 APH, NN-S743 APH)	21
16 DIGITAL PROGRAMMER CIRCUIT	23

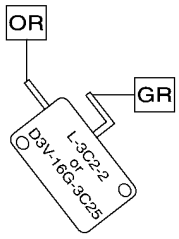
1 SCHEMATIC DIAGRAM (APH)



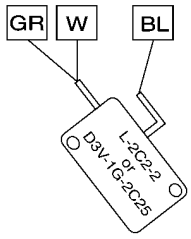
WIRING DIAGRAM (CPH)

NOTE: * When replacing, check the lead wire color as shown.
***Colors shown by ( ) indicate colors of lead wire connector housing.**

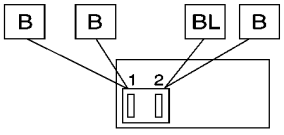




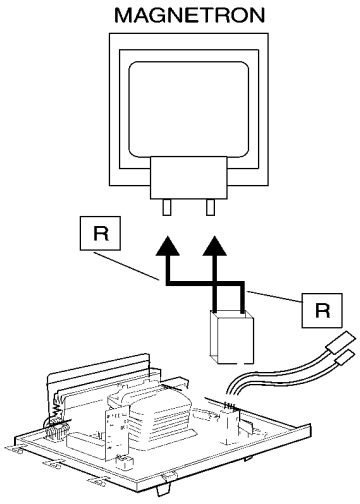
SECONDARY LATCH SWITCH BOTTOM (OUTSIDE)



SHORT LATCH SWITCH BOTTOM (INSIDE)



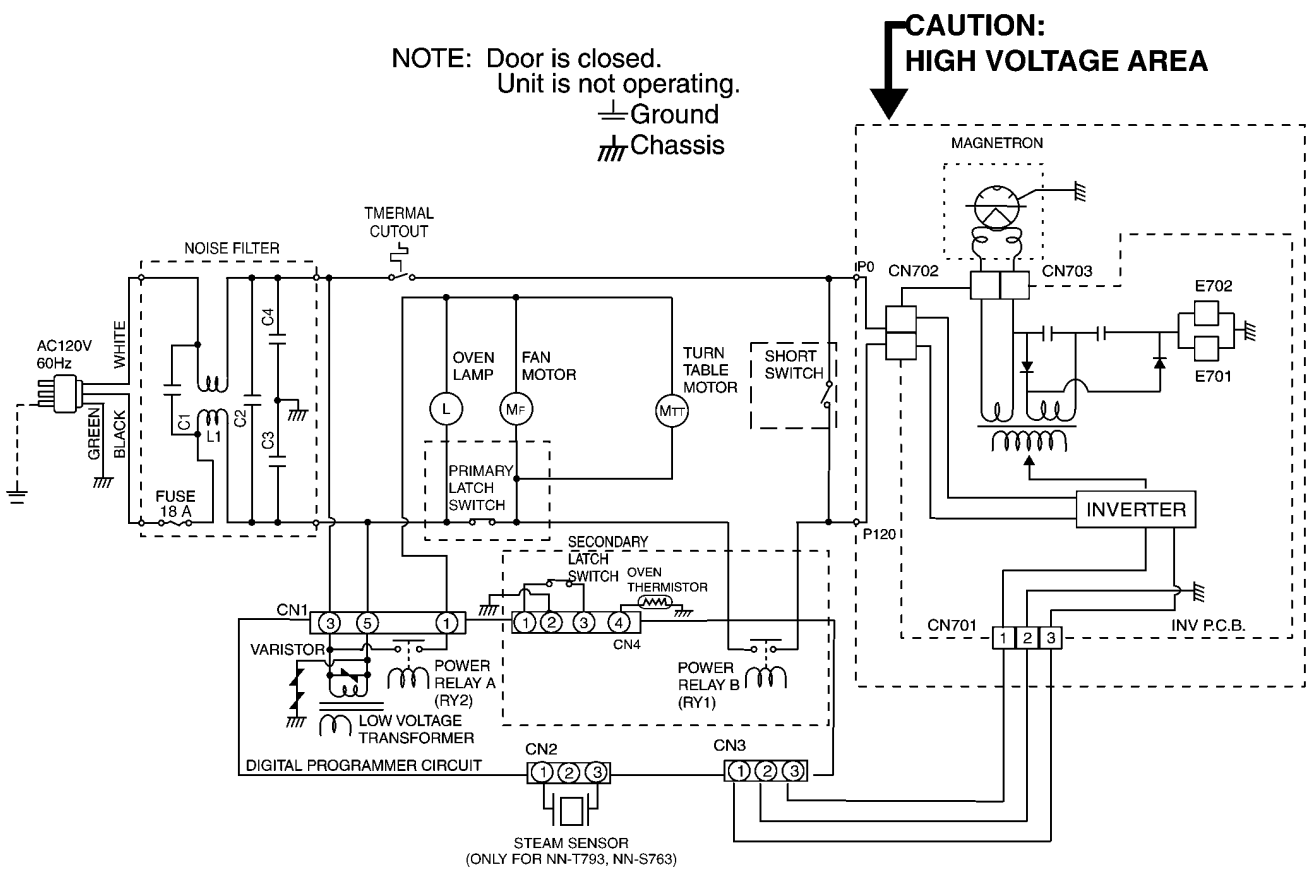
POWER RELAY B (RY1)



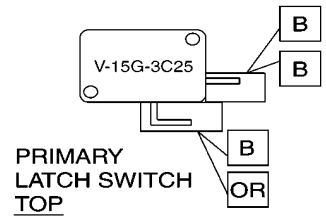
HIGH VOLTAGE INVERTER

SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

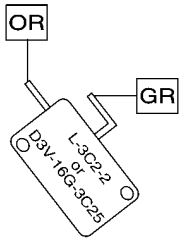
2 SCHEMATIC DIAGRAM (CPH)

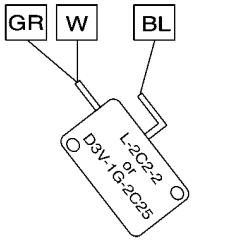


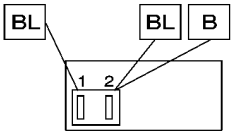
WIRING DIAGRAM (CPH)

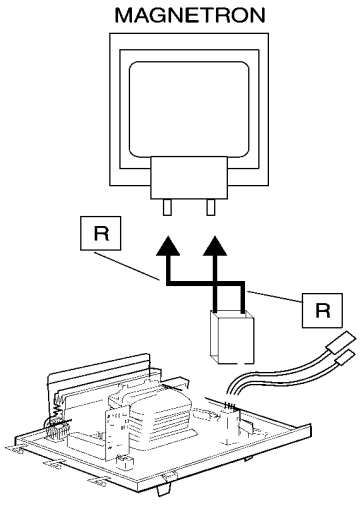


NOTE: * When replacing, check the lead wire color as shown.
***Colors shown by ( ) indicate colors of lead wire connector housing.**









SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

3 MEASUREMENTS AND ADJUSTMENTS

WARNING

* For continued protection against radiation hazard, replace only with identical replacement parts (For touch models Part No. A6142-1450, Type No. V-15G-3C25 for Primary latch switch Part No. A61425180AP, Type No. L-3C2-2 for Secondary latch switch and Part No. A61785180AP, Type No. L-2C2-2 for short switch.)
* When the 18 Amp. fuse is blown due to the operation of the short switch, you must replace primary latch switch and short switch. Also replace power relay B (Part.No. AEG5J1EG12B/AEG5J1EG18B, Type No. G5J-1-TP) when the continuity check reads shorted contacts (1-2). Then follow the adjustment procedures below.
* Interlock switch replacement In replacing faulty switches, be sure mounting tabs are not bent, broken or otherwise deficent in their ability to hold the switches.
* Refer to schematic diagram to ensure proper connection.

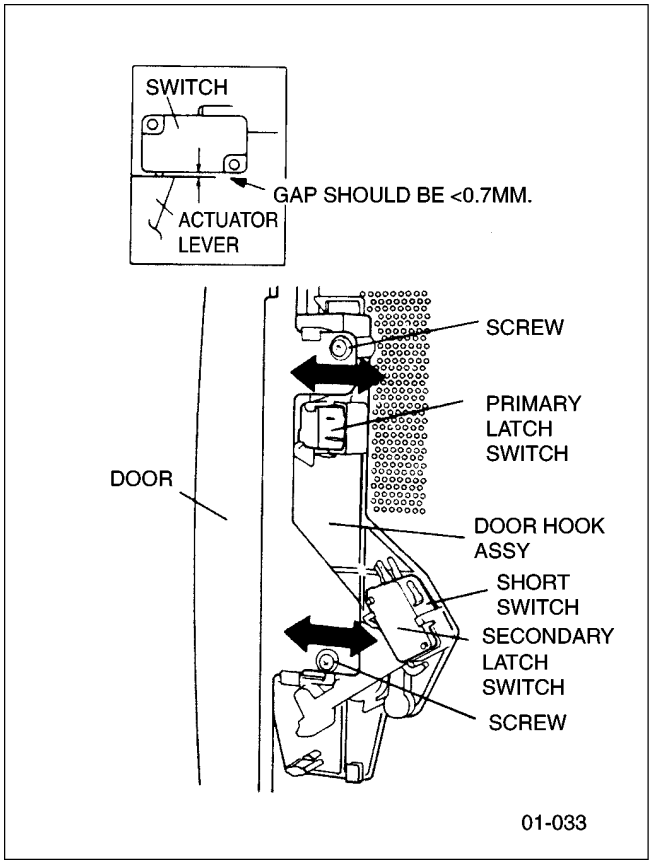
3.1. Adjustment of Primary latch switch, Secondary latch switch and Short switch.

1. When mounting Primary latch switch,Secondary latch switch and short switch to door hook assembly, mount the Primary latch switch, the Secondary latch switch and the short switch to the door hook assembly as shown in table.

   NOTE:

   No specific adjustment during installation of Primary latch switch, Secondary latch switch and short switch to the door hook is necessary.

2. When mounting the door hook assembly to the oven assembly, adjust the door hook assembly by moving it in the direction of arrow in the illustration so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the door hook assembly to the oven assembly.
3. Reconnect the short switch and check the continuity of the monitor circuit and all latch switches again by following the components test procedures.



3.2. Measurement of microwave output

The output power of the magnetron can be determined by performing IEC standard test procedures. However,due to the complexity of IEC test procedures, it is recommended to test the magnetron using the simple method outlined below.

Necessary Equipment:

*1 liter beaker *Glass thermometer
*Wrist watch or stopwatch

NOTE:

Check the line voltage under load.Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurately as possible.

1. Fill the beaker with exactly one liter of tap water.Stir the water using the thermometer and record the beaker´s temperature. (recorded as T1).
2. Place the beaker on the center of glass cook plate.
   Set the oven for High power and heat it for exactly one minute.
3. Stir the water again and read the temperature of the beaker. (recorded as T2).
4. The normal temperature rise at High power position for each model is as shown in table.

TABLE (1L-1min.test)

RATED OUTPUT	TEMPERATURE RISE
1200W(IEC705-88)	Min. 18.5°F(10.3°C)
1300W(IEC705-88)	Min. 19.8°F(11.1°C)
1400W(IEC705-88)	Min. 21.6°F(12.0°C)

4 PROCEDURE FOR MEASURING MICROWAVE ENERGY LEAKAGE

WARNING
Check for radiation leakage after every servicing. Should the leakage be more than 2 mW/cm^2 (1mW/cm^2 for Canada) inform PASC, PSC, or PCI immediately. After repairing or replacing any radiation safety device, keep a written record for future reference, as required by D.H.H.S. and Health and Welfare Canada regulation. This requirement must be strictly observed. In addition, the leakage reading must be recorded on the service repair ticket while in the customer's home.

NOTE:

The U.S. Government standard is 5 mW/cm^2 while in the customer's home. 2mW/cm^2 stated here is our own voluntary standard. (1mW/cm^2 for Canada)

4.1. Equipment

- Electromagnatic radiation monitor
- Glass thermometer 212°F or 100°C
- 600cc glass beaker

4.2. Procedure for measuring radiation leakage

Note before measuring.

- Do not exceed meter full scale deflection. Leakage monitor should initially be set to the highest scale.
- To prevent false readings the test probe should be held by the grip portion of the handle only and moved along the shaded area in Figure no faster than 1 inch/sec (2.5cm/sec).
- Leakage with the outer panel removed ..... less than 5mW/cm^2.
- Leakage for a fully assembled oven with door normally closed ..... less than 2mW/cm^2 (1mW/cm^2 for Canada).
- Leakage for a fully assembled oven [Before the latch switch (primary) is interrupted] while pulling the door ..... less than 2mW/cm^2.

1. Pour 275 ± 15cc (9ozs^s± 1/2oz) of 20°C ± 5°C (68° ± 9°F) water in a beaker which is graduated to 600cc, and place in the center of the oven.
2. Set the radiation monitor to 2450MHz and use it following the manufacturer´s recommended test procedure to assure correct results.
3. When measuring the leakage, always use the 2 inch (5cm) spacer supplied with the probe.
4. Tap the start pad or set the timer and with the magnetron oscillating, measure the leakage by holding the probe perpendicular to the surface being measured.

4.2.1. Measurement with the outer panel removed.

Whenever you replace the magnetron, measure for radiation leakage before the outer panel is installed and after all necessary components are replaced or adjusted. Special care should be taken in measuring around the magnetron.

WARNING
Avoid contacting any high voltage parts.

4.2.2. Measurements with a fully assembled oven.

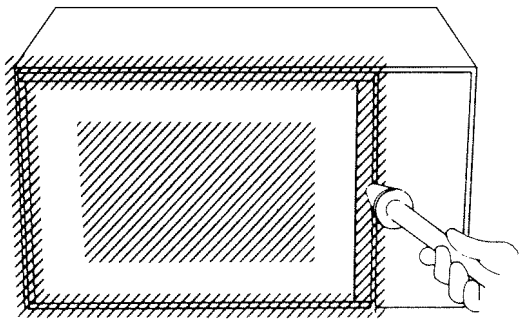
After all components, including outer panel are fully assembled, measure for radiation leakage around the door periphery, the door viewing window, the exhaust opening and air inlet openings.

4.3. Record keeping and notification after measurement

- After any adjustment or repair to a microwave oven, a leakage reading must be taken. Record this leakage reading on the repair ticket even if it is zero.

  A copy of this repair ticket and the microwave leakage reading should be kept by repair facility.
- Should the radiation leakage be more than 2 mW/cm^2 (1mW/cm for Canada) after determining that all parts are in good condition, functioning properly, and genuine replacement parts as listed in this manual have been used, immediately notify PASC, PSC or PCI.

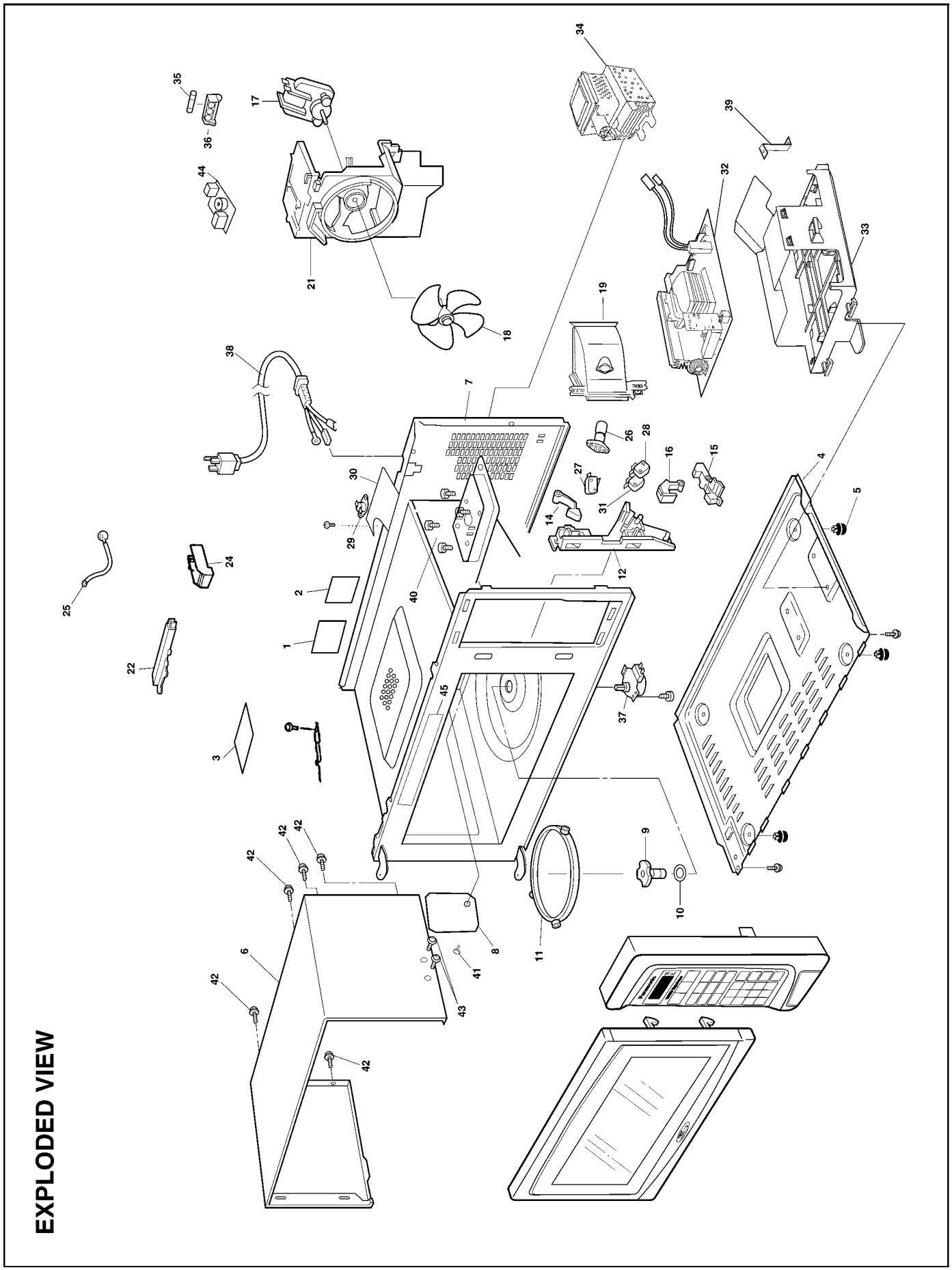
4.4. At least once a year, have the radiation monitor checked for calibration by its manufacturer.



01-035

MOVE PROBE ALONG SHADED AREA(//////)AROUND EXHAUST OPENINGS(as shown)AND AROUND AIR INLET OPENING

5 EXPLODED VIEW AND PARTS LIST



6 PARTS LIST

NOTE:

1. When ordering replacement part(s), please use part number(s) shown in this part list.
   Do not use description of the part.
2. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacture's specified parts.

NOTE:

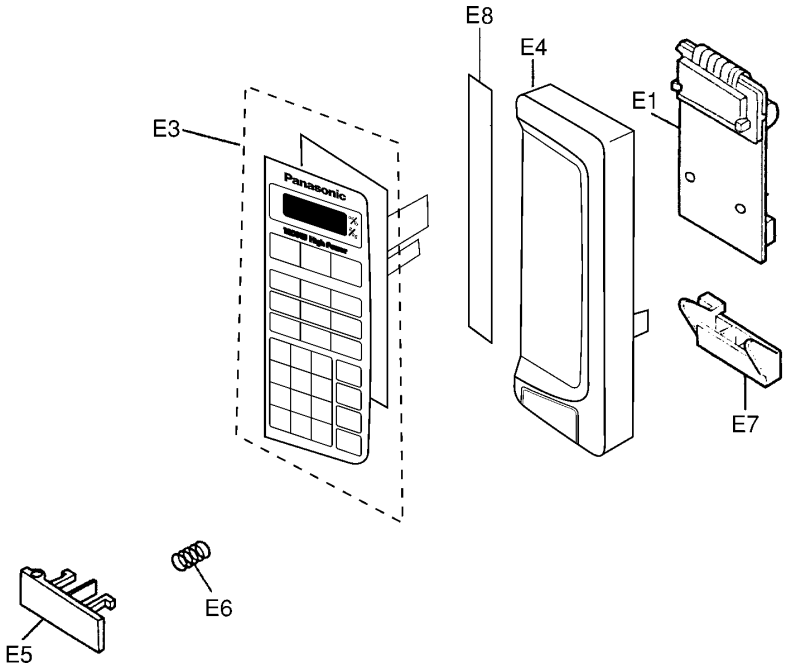
"A" parts are supplied by MOD (Japan)

"F" parts are supplied by SIMMC (China)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
1		F00064W70AP	CAUTION LABEL	1	T*** APH
1		F00069660AP	CAUTION LABEL	1	S*** APH
1		F00067600CP	CAUTION LABEL	1	CPH
2		F00075X00SAP	NAME PLATE	1	T793SF APH
2		F00075X10SAP	NAME PLATE	1	T783SF APH
2		F00075X70SAP	NAME PLATE	1	T763SF APH
2		F00075X20BAP	NAME PLATE	1	S763BF APH
2		F00075X20HAP	NAME PLATE	1	S763WF APH
2		F00075X30BAP	NAME PLATE	1	S753BF APH
2		F00075X30HAP	NAME PLATE	1	S753WF APH
2		F00075X40BAP	NAME PLATE	1	S743BF APH
2		F00075X40HAP	NAME PLATE	1	S743WF APH
3		F00334W00AP	FUSE LABEL	1	
4		F10015X00AP	BASE	1	
5		F10084T00AP	RUBBER FOOT	4	
6		F110D5X00SAP	CABINET BODY (U)	1	T***SF APH/CPH
6		F110D5K00BAP	CABINET BODY (U)	1	S763BF APH/CPH, S753BF APH, S743BF APH
6		F110D4W00HAP	CABINET BODY (U)	1	S763WF APH/CPH, S753WF APH/CPH, S743WF APH
7	⚠	F200A5X20AP	OVEN (U)	1	T***SF APH/CPH, S763BF/WF APH, S763BF/WF CPH, S743BF/WF APH
7	⚠	F200A5X30AP	OVEN (U)	1	S753BF/WF APH, S753WF CPH
8		F20555K00AP	COVER	1	
9		F21315Y00AP	PULLY SHAFT	1	
10		F2177-F80	WASHER	1	
11		F290D9330AP	ROLLER RING (U)	1	
12	⚠	F3020-1200	DOOR HOOK	1	
14		F3136-1200	HOOK LEVER A	1	
15		F31374650AP	HOOK LEVER B	1	
16		F31384650AP	HOOK LEVER C	1	
17		F400A5Y00AP	FAN MOTOR	1	AC120V, SINGLE PHASE, 60Hz
18		F40084T10AP	FAN BLADE	1	
19		F40254W00AP	AIR GUIDE A	1	
21		F41445W00AP	ORIFICE	1	
22		F64508660AP	SENSOR COVER B	1	T***SF APH/CPH, S763BF/WF APH, S763BF/WF CPH, S743BF/WF APH
24		F65434W00AP	SENSOR COVER C	1	T***SF APH/CPH, S763BF/WF APH, S763BF/WF CPH, S743BF/WF APH
25		A607S4M00AP	STEAM SENSOR	1	T***SF APH/CPH, S763BF/WF APH, S763BF/WF CPH, S743BF/WF APH
26		F612E4W00AP	INCANDESCENT LAMP (U)	1	125V, 60Hz, 20W
27	⚠	F61425U30XN	MICRO SWITCH	1	(PRIMARY LATCH SWITCH) (KW3-0D-A (474))
28	⚠	F61415U30XN	MICRO SWITCH	1	(SECONDARY LATCH SWITCH) (KW3-0D-A (471))
29	⚠	F61455L00CP	THERMAL CUTOUT	1	105°C
30		F66264W00AP	THERMAL CUTOUT INSULATION BRACKET	1	
31	⚠	F61785U30XN	MICRO SWITCH	1	(SHORT SWITCH) (KW3-0T-A (375))
32	⚠	A606Y5X00AP	H.V.INVERTER (U)	1	
33		F65855X00AP	INVERTER BRACKET	1	T*** APH
33		F65855W00AP	INVERTER BRACKET	1	T*** CPH, S*** APH/CPH
34	⚠	2M261-M32F	MAGNETRON	1	APH
34	⚠	2M261-M32G	MAGNETRON	1	CPH
35	⚠	B62308250AP	FUSE	1	18A/120V, 60Hz
36		F62315G10XN	FUSE HOLDER	1	APH
37		F63265G60AP	TURNTABLE MOTOR	1	
38	⚠	F900C4T60CP	AC CORD W/PLUG	1	T*** APH

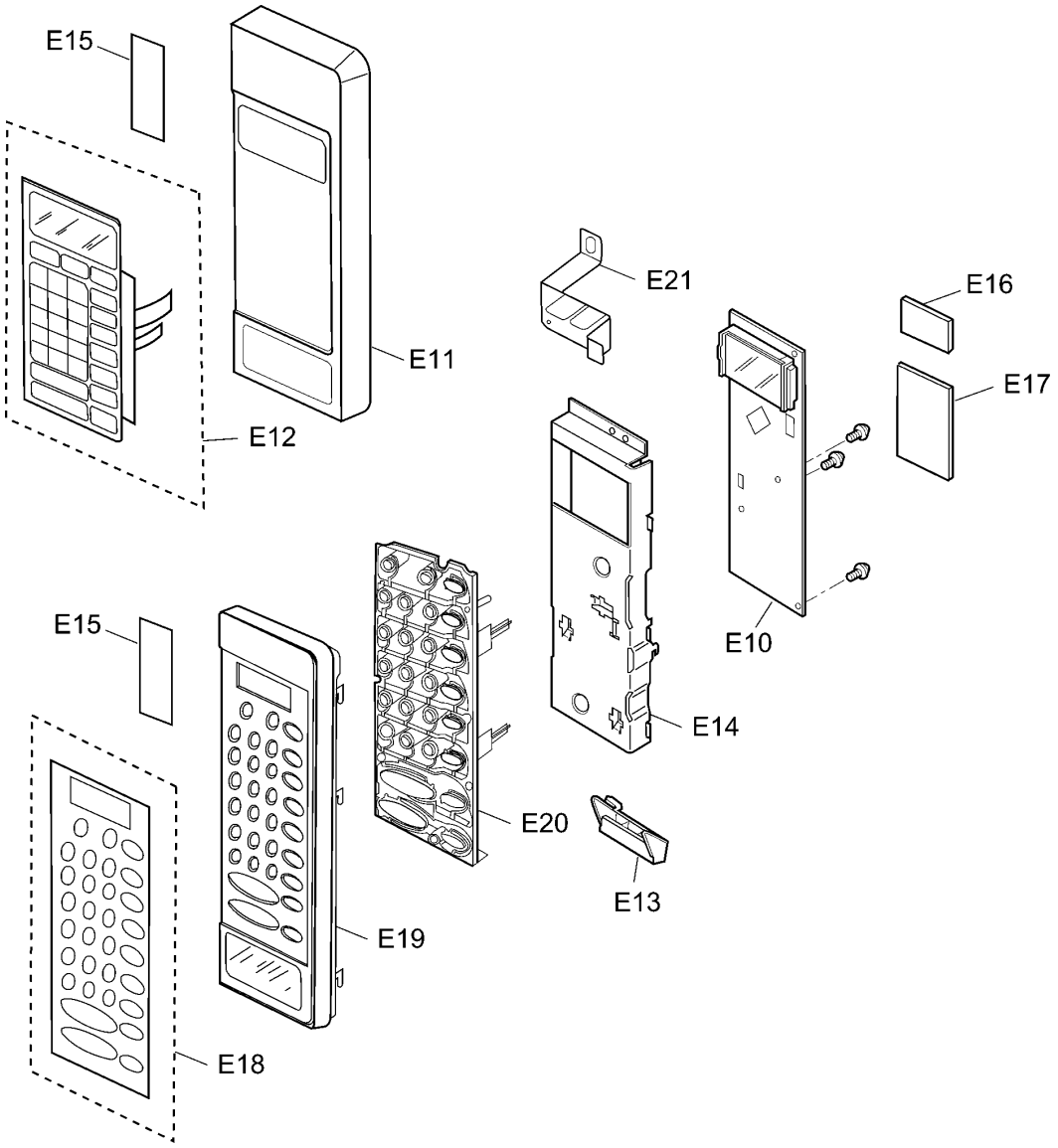
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
38	⚠	F900C4T00AP	AC CORD W/PLUG	1	S*** APH
38	⚠	F900C4W10CP	AC CORD W/PLUG	1	CPH
39		F66625X00AP	GROUNDING PLATE	1	
40		XTWFA4+12T	SCREW	4	FOR MAGNETRON
41		F90804W00AP	CANOE CLIP	1	FOR COVER
42		XTTAFE4T12A0	SCREW	5	FOR CABINET BODY
43		XTTFA4+8BFZ	SCREW	2	FOR CABINET BODY SIDE (S***BF APH/CPH)
43		XTTFA4+8BCR	SCREW	2	FOR CABINET BODY SIDE (T***SF APH/CPH, S***WF APH/CPH)
44		J692Y4T00CP	NOISE FILTER	1	CPH
45		F03345W20AP	MENU LABEL	1	T*** APH, S763BF/WF APH
45		F03345Y40AP	MENU LABEL	1	S753BF/WF APH

7 ESCUTCHEON BASE ASSEMBLY (NN-S*** APH/CPH)



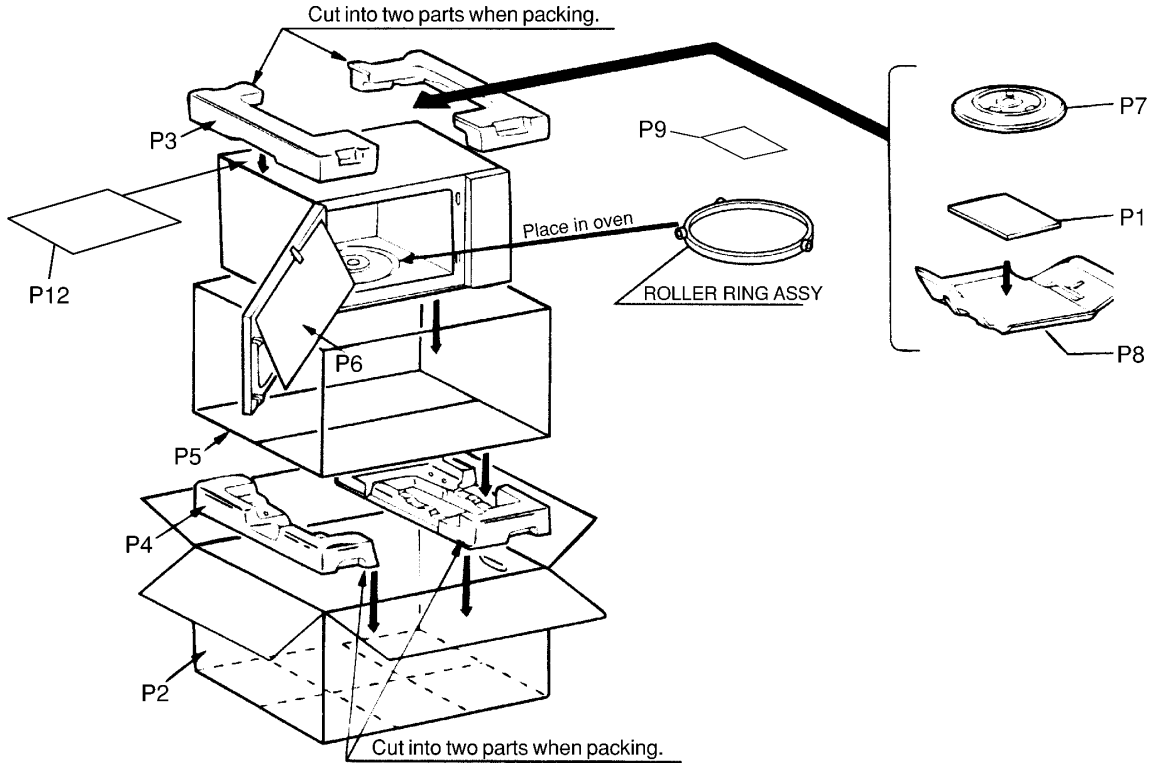
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E1		F603L5X20AP	D.P.CIRCUIT	1	RTL (W/COMPONENT) S763BF/WF APH
E1		F603L5X30AP	D.P.CIRCUIT	1	RTL (W/COMPONENT) S753BF/WF APH
E1		F603L5X40AP	D.P.CIRCUIT	1	RTL (W/COMPONENT) S743BF/WF APH
E1		F603L5X20CP	D.P.CIRCUIT	1	RTL (W/COMPONENT) S763BF/WF CPH
E1		F603L5X30CP	D.P.CIRCUIT	1	RTL (W/COMPONENT) S753WF CPH
E3		F630Y5X20BAP	MEMBRANE SWITCH (U)	1	S763BF APH
E3		F630Y5X20HAP	MEMBRANE SWITCH (U)	1	S763WF APH
E3		F630Y5X30BAP	MEMBRANE SWITCH (U)	1	S753BF APH
E3		F630Y5X30HAP	MEMBRANE SWITCH (U)	1	S753WF APH
E3		F630Y5X40BAP	MEMBRANE SWITCH (U)	1	S743BF APH
E3		F630Y5X40HAP	MEMBRANE SWITCH (U)	1	S743WF APH
E3		F630Y5X20BCP	MEMBRANE SWITCH (U)	1	S763BF CPH
E3		F630Y5X20HCP	MEMBRANE SWITCH (U)	1	S763WF CPH
E3		F630Y5X30HCP	MEMBRANE SWITCH (U)	1	S753WF CPH
E4		F80345K00BAP	ESCUTCHEON BASE	1	S763BF APH/CPH, S753BF APH, S743BF APH
E4		F80345K00HAP	ESCUTCHEON BASE	1	S763WF APH/CPH, S753WF APH/CPH, S743WF APH
E5		F80725K00BAP	DOOR OPENING BUTTON	1	S763BF APH/CPH, S753BF APH, S743BF APH
E5		F80725K00HAP	DOOR OPENING BUTTON	1	S763WF APH/CPH, S753WF APH/CPH, S743WF APH
E6		F80375K00AP	COOK BUTTON SPRING	1	
E7		F82564W00AP	DOOR OPENING LEVEL	1	
E8		F00075X20BCP	NAME PLATE	1	S763BF CPH
E8		F00075X20HCP	NAME PLATE	1	S763WF CPH
E8		F00075X30HCP	NAME PLATE	1	S753WF CPH

8 ESCUTCHEON BASE ASSEMBLY (NN-T*** APH/CPH)



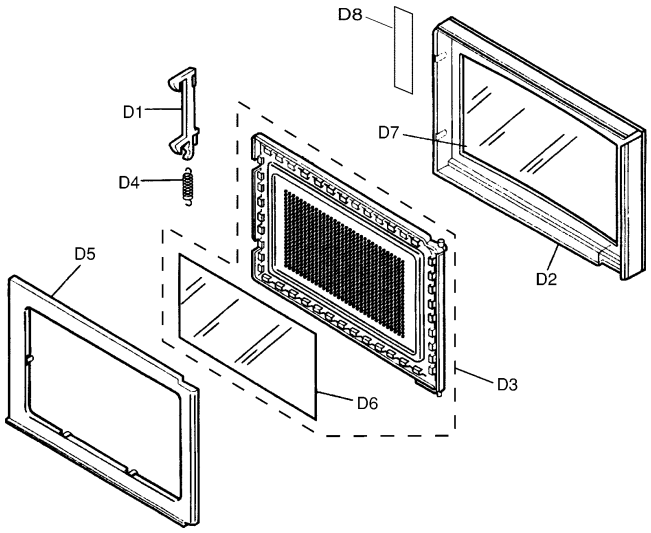
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E10		F603L5X00AP	D.P.CIRCUIT (AU)	1	T793SF APH
E10		F603L5X70AP	D.P.CIRCUIT (AU)	1	T783SF APH, T763SF APH
E10		F603L5X00CP	D.P.CIRCUIT (AU)	1	T793SF CPH
E11		F800L4W70BAP	CONTROL PANEL (AU)	1	T783SF APH, T763SF APH
E12		F630Y5X10SAP	MEMBRANE SWITCH (U)	1	T783SF APH
E12		F630Y5X70SAP	MEMBRANE SWITCH (U)	1	T763SF APH
E13		F82565X00AP	DOOR OPENING LEVEL	1	T793SF APH/CPH
E13		F82564W00AP	DOOR OPENING LEVEL	1	T783SF APH, T763SF APH
E14		F81274W70AP	BACK PANEL	1	T783SF APH, T763SF APH
E15		F00075X00SCP	NAME PLATE	1	T793SF CPH
E16		F603M5W00AP	D.P.CIRCUIT (BU)	1	T793SF APH/CPH
E17		F603Y5W00AP	D.P.CIRCUIT (DU)	1	T793SF APH
E17		F603Y5W00CP	D.P.CIRCUIT (DU)	1	T793SF CPH
E18		F83375X00SAP	MEMBRANE SHEET	1	T793SF APH
E18		F83375X00SCP	MEMBRANE SHEET	1	T793SF CPH
E19		F800L5X00BAP	CONTROL PANEL (AU)	1	T793SF APH/CPH
E20		F82985X00AP	BUTTON	1	T793SF APH/CPH
E21		F90095X00AP	GROUNDING PANEL	1	T793SF APH/CPH

9 PACKING AND ACCESORIES



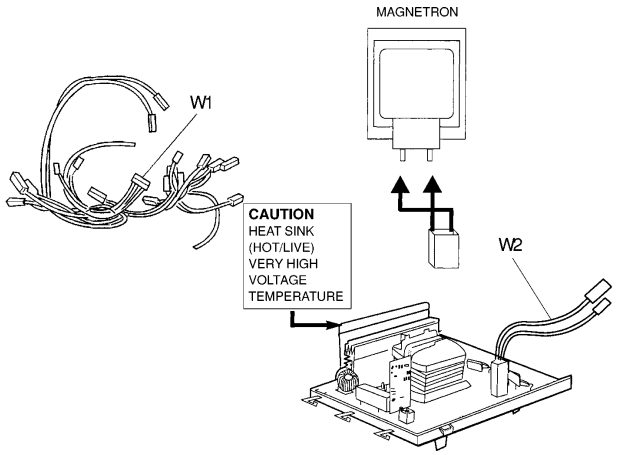
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
P1		F00035X00AP	INSTRUCTION MANUAL	1	T793SF APH
P1		F00035X20AP	INSTRUCTION MANUAL	1	T783SF APH, T763SF APH, S763BF/WF APH
P1		F00035X30AP	INSTRUCTION MANUAL	1	S753BF/WF APH
P1		F00035Y70AP	INSTRUCTION MANUAL	1	S743BF/WF APH
P1		F00035X00CP	INSTRUCTION MANUAL	1	T793SF CPH
P1		F00035X20CP	INSTRUCTION MANUAL	1	S763BF/WF CPH
P1		F00035X30CP	INSTRUCTION MANUAL	1	S753WF CPH
P2		F01025X00SAP	PACKING CASE, PAPER	1	T793SF APH
P2		F01025X10SAP	PACKING CASE, PAPER	1	T783SF APH
P2		F01025X70SAP	PACKING CASE, PAPER	1	T763SF APH
P2		F01025X20BAP	PACKING CASE, PAPER	1	S763BF APH
P2		F01025X20HAP	PACKING CASE, PAPER	1	S763WF APH
P2		F01025X30BAP	PACKING CASE, PAPER	1	S753BF APH
P2		F01025X30HAP	PACKING CASE, PAPER	1	S753WF APH
P2		F01025X40BAP	PACKING CASE, PAPER	1	S743BF APH
P2		F01025X40HAP	PACKING CASE, PAPER	1	S743WF APH
P2		F01025X00SCP	PACKING CASE, PAPER	1	T793SF CPH
P2		F01025X20BCP	PACKING CASE, PAPER	1	S763BF CPH
P2		F01025X20HCP	PACKING CASE, PAPER	1	S763WF CPH
P2		F01025X30HCP	PACKING CASE, PAPER	1	S753WF CPH
P3		F01044W00AP	UPPER FILLER	1	T*** APH/CPH
P3		F01045J00AP	UPPER FILLER	1	S*** APH/CPH
P4		F01054W00AP	LOWER FILLER	1	T*** APH/CPH
P4		F01055J00AP	LOWER FILLER	1	S*** APH/CPH
P5		F01064W00AP	P.E.BAG	1	
P6		F01074W00AP	DOOR SHEET	1	
P7		B06014W00AP	COOKING TRAY	1	
P8		F01084W00AP	TRAY PACKING	1	
P9		F00065G40AP	CAUTION LABEL	1	
P12		F01924T00AP	SHEET	1	T***SF APH/CPH, S763BF APH/CPH, S753BF APH, S743BF APH

10 DOOR ASSEMBLY



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
D1		F3018-1200	DOOR KEY A	1	
D2	⚠	F302A5X00SAP	DOOR A (U)	1	T***SF APH/CPH
D2	⚠	F30015X20BAP	DOOR A	1	S763BF APH/CPH, S753BF APH, S743BF APH
D3	⚠	F30015X20HAP	DOOR A	1	S763WF APH/CPH, S753WF APH/CPH, S743WF APH
D3	⚠	F302K4W00AP	DOOR E (U)	1	
D4		F30215G10XN	DOOR KEY SPRING	1	
D5	⚠	F30854W00AP	DOOR C	1	
D6	⚠	F31454W00AP	DOOR SCREEN A	1	
D7		F31465X00SAP	DOOR SCREEN B	1	T793SF APH/CPH, T783SF APH
D7		F31465X70BAP	DOOR SCREEN B	1	T763SF APH
D7		F31465K00BAP	DOOR SCREEN B	1	S763BF APH/CPH, S753BF APH, S743BF APH
D7		F31465K00HAP	DOOR SCREEN B	1	S763WF APH/CPH, S753WF APH/CPH, S743WF APH
D8		F02459660AP	DHHS LABEL	1	T*** APH
D8		F04114180CP	DHHS LABEL	1	T*** CPH

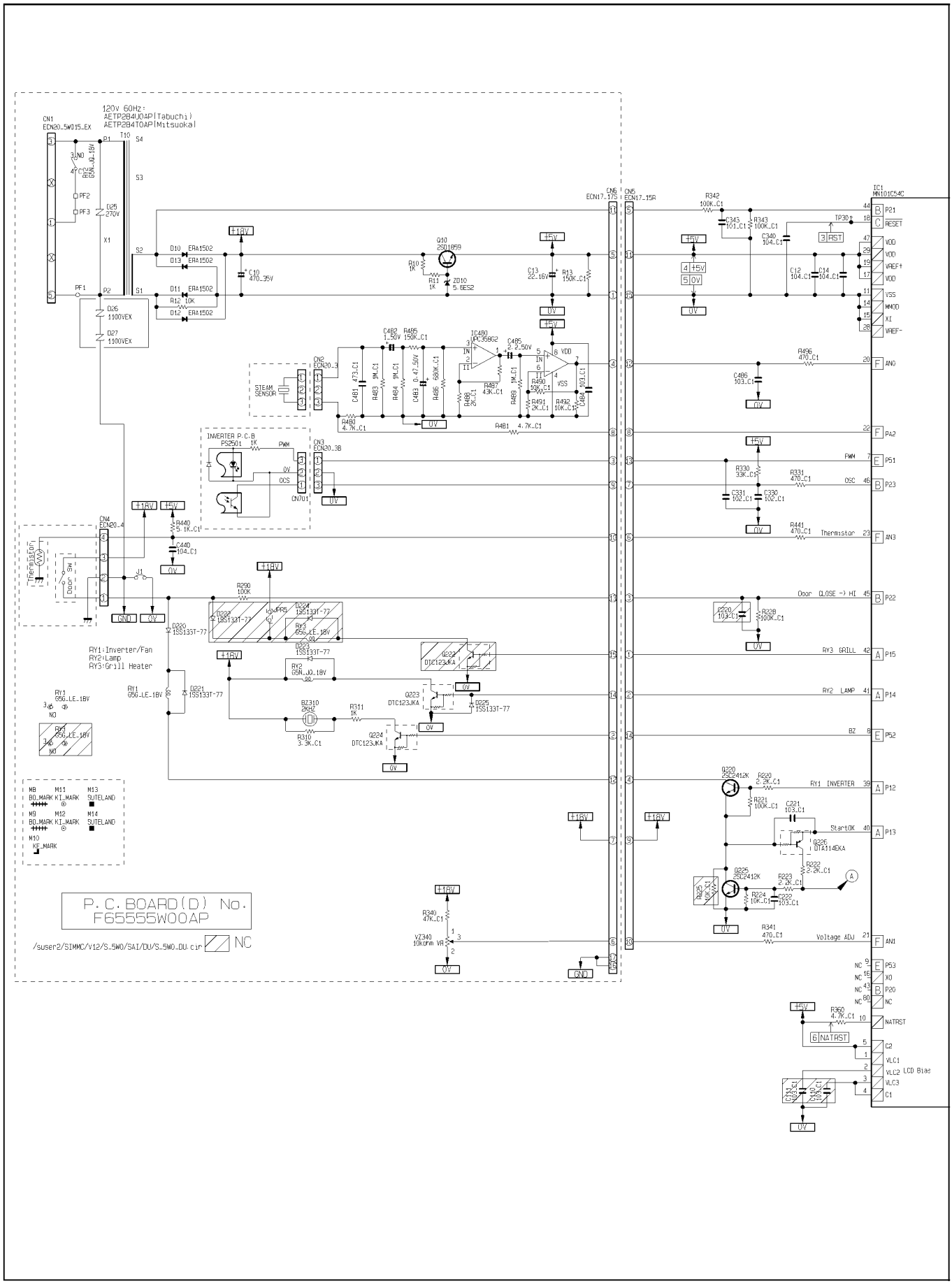
11 WIRING MATERIALS

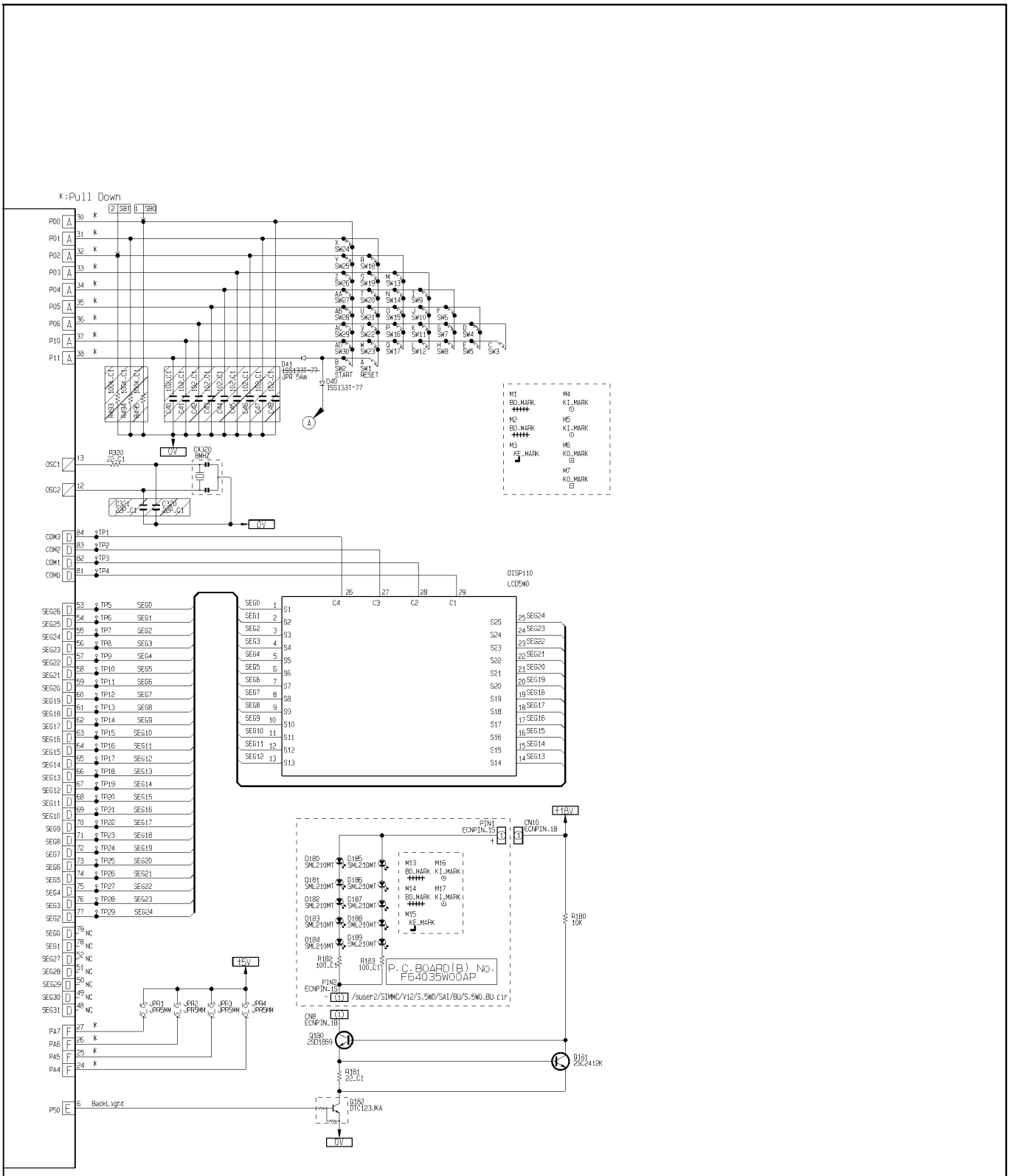


Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
W1		F030A4W00AP	LEAD WIRE HARNESS	1	APH
W1		F030A4W10CP	LEAD WIRE HARNESS	1	CPH
W2		F030E5K00AP	H.V.LEAD WIRE	1	APH
W2		F030E4W00CP	H.V.LEAD WIRE	1	CPH

12 DIGITAL PROGRAMMER CIRCUIT (NN-T793 APH/CPH)

SCHEMATIC DIAGRAM

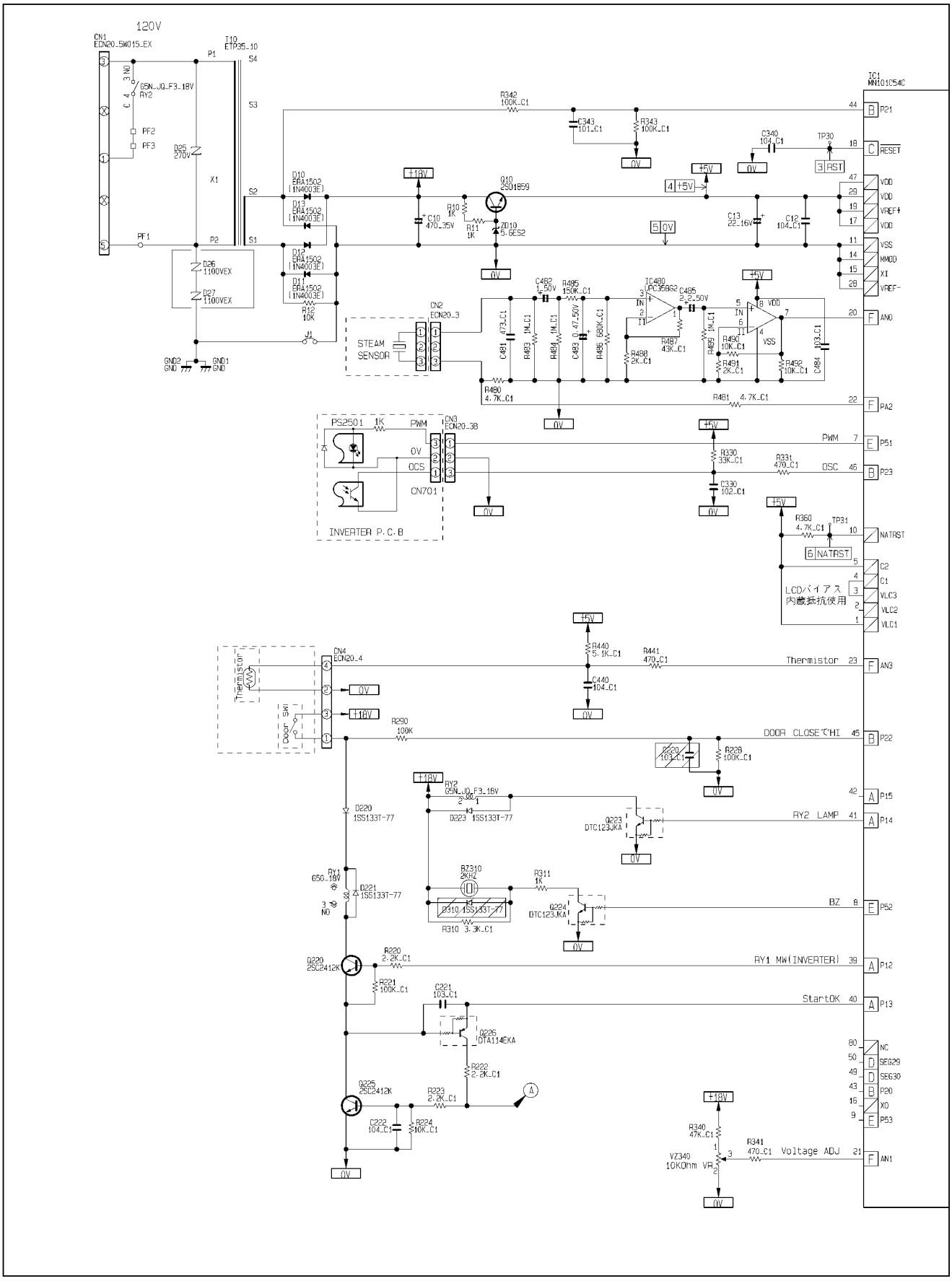


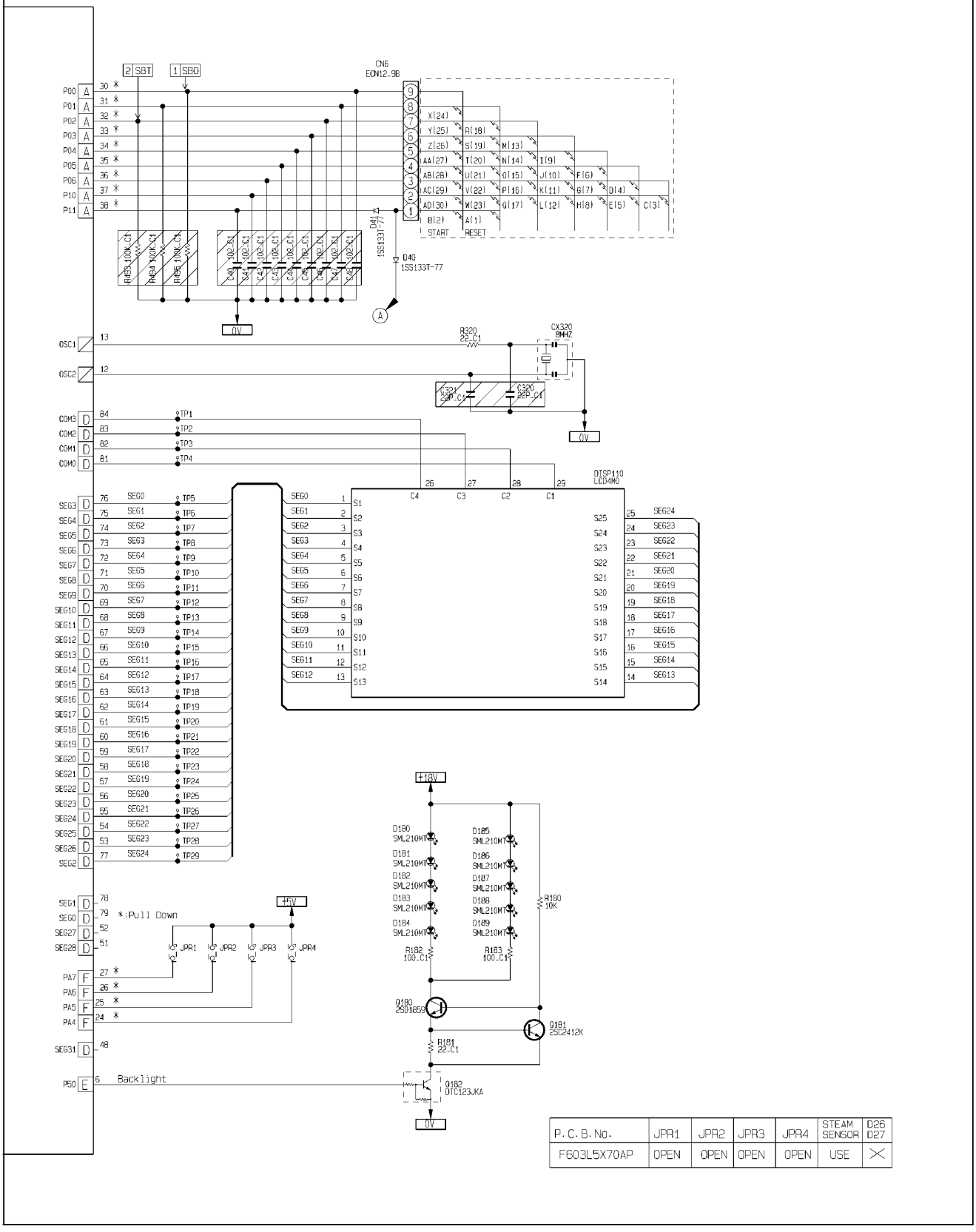


P.C.B.No.	JPR1	JPR2	JPR3	JPR4	STEAM SENSOR	D26 D27
F603L5X00AP	SHORT	SHORT	OPEN	SHORT	USE	×
F603L5X00CP	SHORT	OPEN	SHORT	SHORT	USE	USE

13 DIGITAL PROGRAMMER CIRCUIT (NN-T783 APH, NN-T763 APH)

SCHEMATIC DIAGRAM

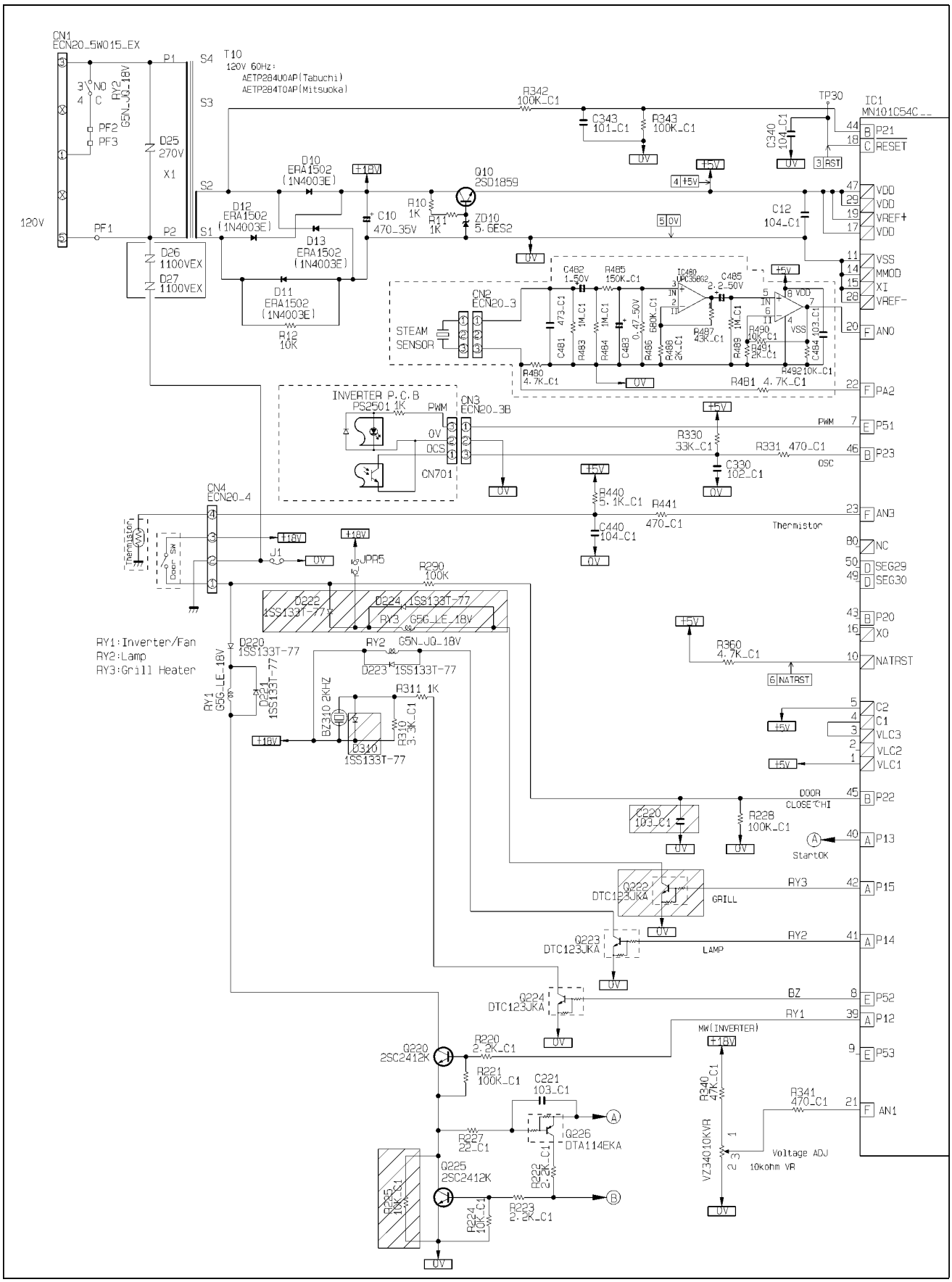


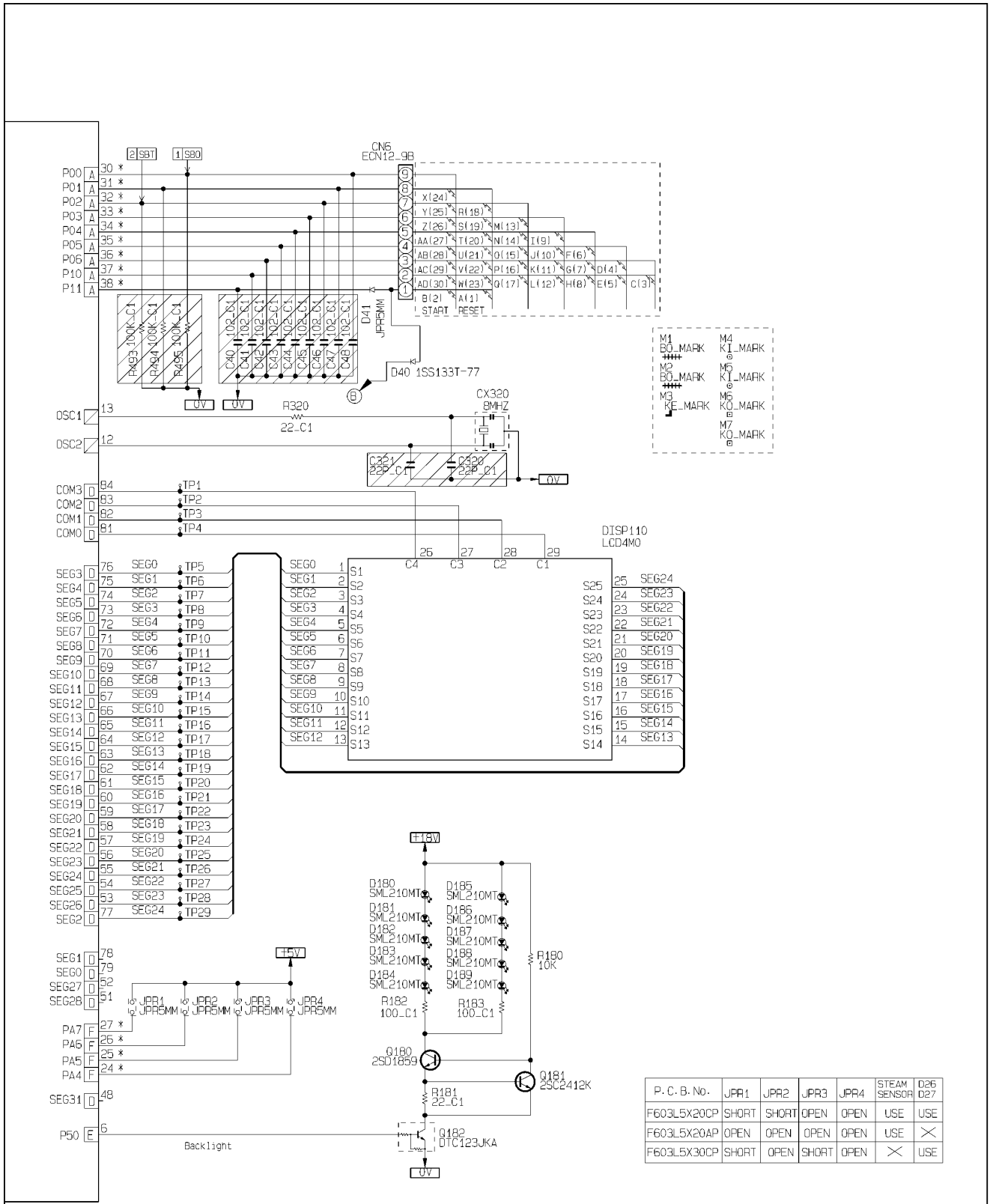


P.C.B.No.	JPR1	JPR2	JPR3	JPR4	STEAM SENSOR	D25 D27
F603L5X70AP	OPEN	OPEN	OPEN	OPEN	USE	×

14 DIGITAL PROGRAMMER CIRCUIT (NN-S763 APH/CPH, NN-S753 CPH)

SCHEMATIC DIAGRAM

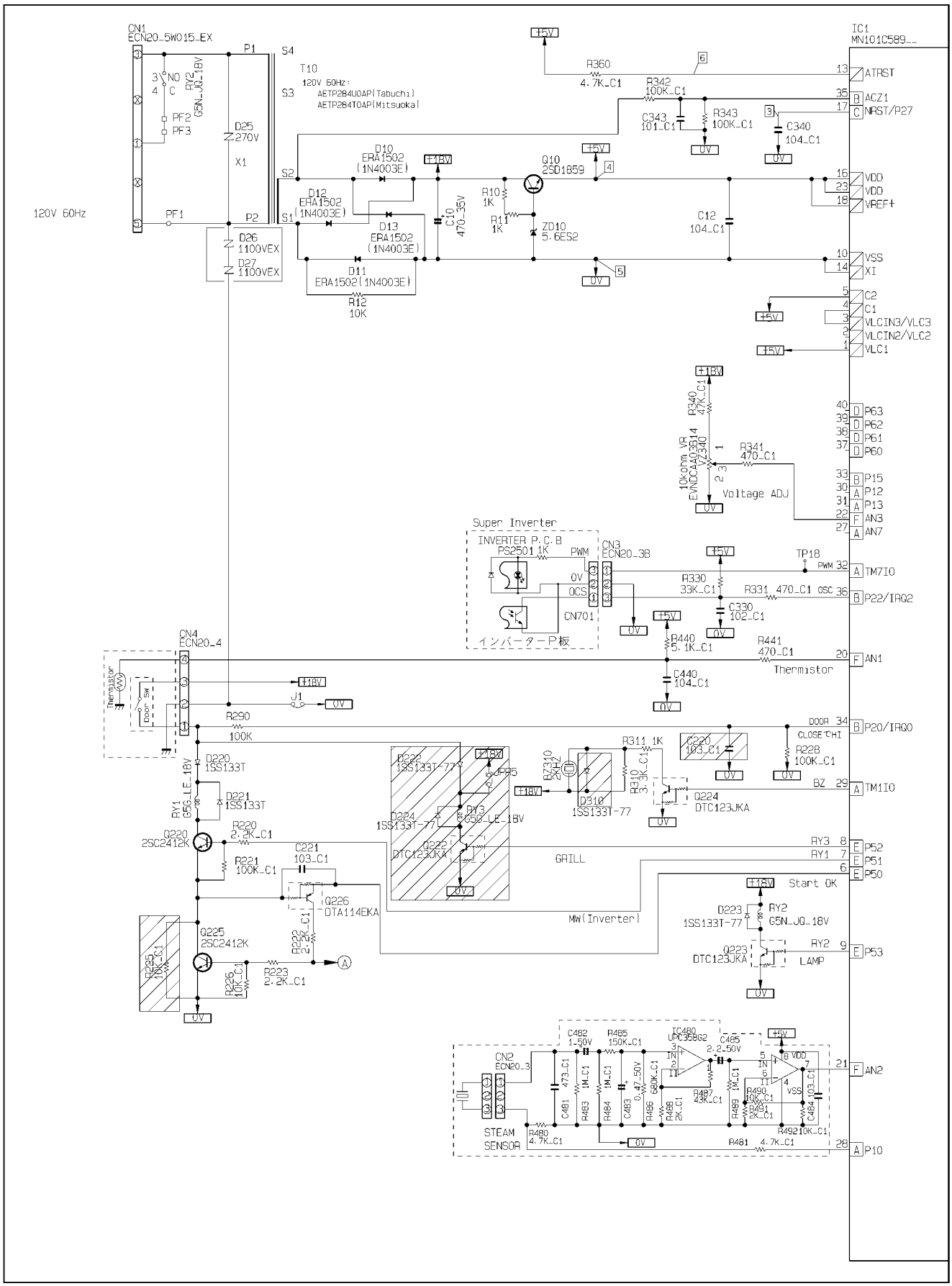


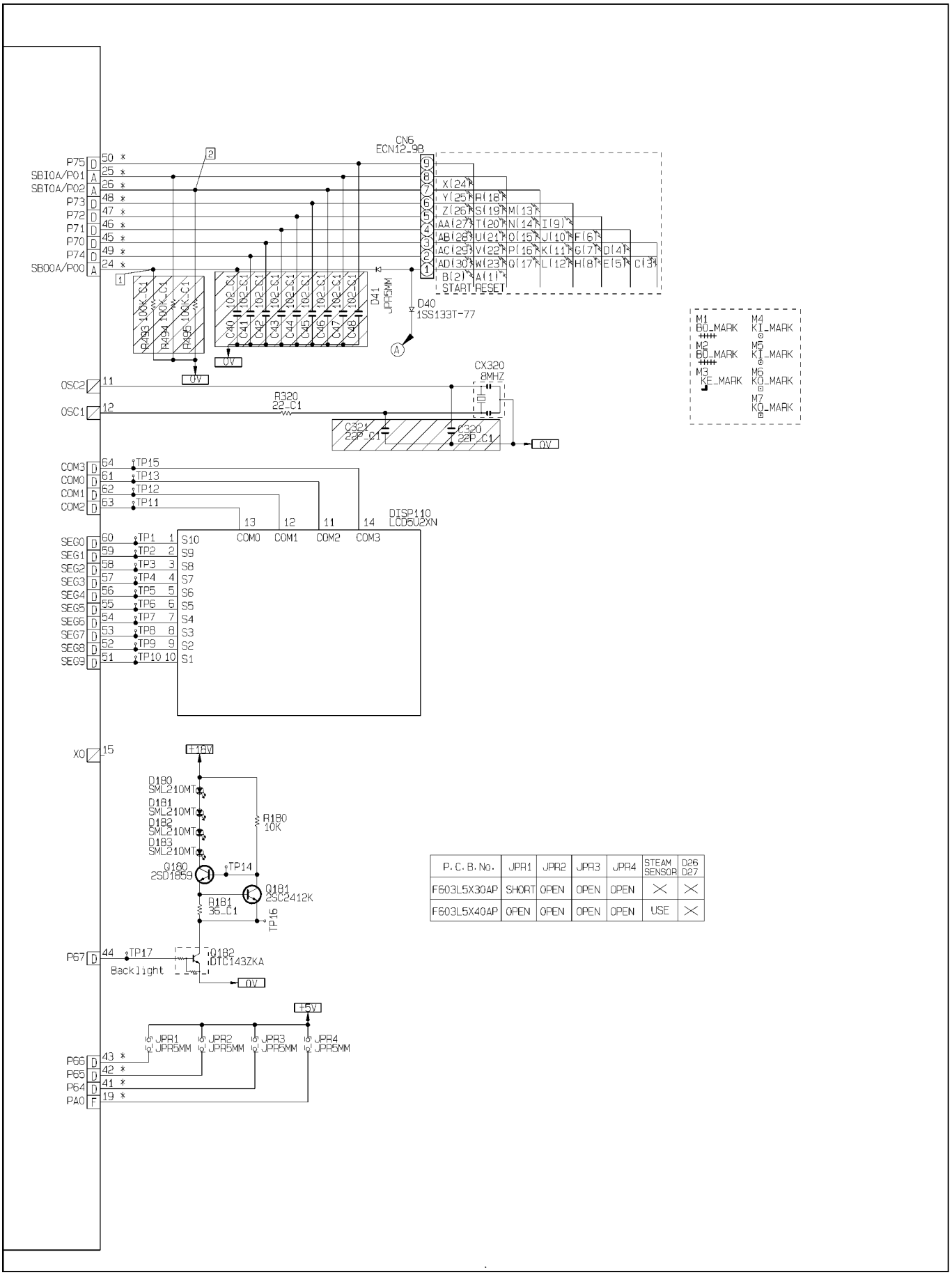


P. C. B. No.	JPR1	JPR2	JPR3	JPR4	STEAM SENSOR	D26 D27
F603L5X20CP	SHORT	SHORT	OPEN	OPEN	USE	USE
F603L5X20AP	OPEN	OPEN	OPEN	OPEN	USE	×
F603L5X30CP	SHORT	OPEN	SHORT	OPEN	×	USE

15 DIGITAL PROGRAMMER CIRCUIT (NN-S753 APH, NN-S743 APH)

SCHEMATIC DIAGRAM





P.C.B.No.	JPR1	JPR2	JPR3	JPR4	STEAM SENSOR	D26 D27
F603L5X30AP	SHORT	OPEN	OPEN	OPEN	×	×
F603L5X40AP	OPEN	OPEN	OPEN	OPEN	USE	×

16 DIGITAL PROGRAMMER CIRCUIT

PARTS LIST

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310		AEFBAT2001	BUZZER	1	2.0KHz
C221		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V
C222, C486		AECUU06F103Z	CHIP CAPACITOR	2	0.01µF/50V (T793SF)
C484		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
C343		AECUU06C101J	CHIP CAPACITOR	1	100PF/50V
C12, C340, C440		AECUT06F104Z	CHIP CAPACITOR	3	0.1µF/25V
C330		AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V
C331		AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V (T793SF)
C481		AECUU06F473Z	CHIP CAPACITOR	1	0.047µF/50V (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
C10		AECETK1V471B	AL CHEM CAPACITOR	1	470µF/35V
C482		AECETS1H010B	AL CHEM CAPACITOR	1	1µF/50V (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
C483		AECETS1HR47B	AL CHEM CAPACITOR	1	0.47µF/50V (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
C485		AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2µF/50V (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
C13		AECETS1C220B	AL CHEM CAPACITOR	1	2.2µF/50V (T793SF)
PIN1, PIN2		AEPINIPS-1E7	PIN	2	T793SF
CN1		AEEMXH01505W	CONNECTOR	1	5 Pin
CN2		AEEMMF00703W	CONNECTOR	1	3 Pin (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
CN3		F03524U50AP	CONNECTOR	1	3 Pin
CN4		AEEMXH00F04W	CONNECTOR	1	4 Pin
CN5		AEEM15F9604S	CONNECTOR	1	15Pin (T793SF)
CN6		AEEM09FDZBTM	CONNECTOR	1	9 Pin
CX320		AEFOS800MG06	CERAMIC RESONATOR	1	8.0MHz
DISP1		AEDDHJ5W00AP	LCD	1	T793SF
DISP1		AEDDHJ4M00AP	LCD	1	EXCEPT T793SF, S753BF/WF APH & S743BF/WF APH
DISP1		AEDDHJ5U20XN	LCD	1	S753BF/WF APH, S743BF/WF APH
DISP1 HOLDER		F66175W00AP	LCD HOLDER	1	T793SF
DISP1 HOLDER		F66175E40XN	LCD HOLDER	1	EXCEPT T793SF, S753BF/WF APH & S743BF/WF APH
DISP1 HOLDER		F66174U20AP	LCD HOLDER	1	S753BF/WF APH, S743BF/WF APH
		F67525E40XN	DIFFUSION SHEET	1	EXCEPT S753BF/WF APH & S743BF/WF APH
D10-D13		AESSRCT1A6-E	DIODE	4	
D40, D220, D221, D223		AESS133T-77	DIODE	4	
D225		AESS133T-77	DIODE	1	T793SF
D25		AERZ271KD10A	VARSITOR	1	
D26, D27		AERZB00NS10D	VARSITOR	2	CPH
D180-D183		AESQPY1112H	CHIP-LED	4	
D184-D189		AESQPY1112H	CHIP-LED	6	EXCEPT S753BF/WF APH & S743BF/WF APH
IC1		MN101C54CEH	L.S.I	1	EXCEPT S753BF/WF APH & S743BF/WF APH
IC1		MN101C589EB	L.S.I	1	S753BF/WF APH, S743BF/WF APH
IC480		AEICUPC358G2	IC	1	T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH
Q226		AESA14EKE	CHIP DIGI-TRANSISTOR	1	
Q182, Q223, Q224		AESC23JKE	CHIP DIGI-TRANSISTOR	3	
Q10, Q180		2SD1859TV2Q	TRANSISTOR	2	
Q181, Q220, Q225		2SC2412KT146	CHIP TRANSISTOR	3	
R182, R183		AERJ06J101R	CHIP RESISTOR	2	100Ω, 1/16W, 5% (EXCEPT S753BF/WF APH & S743BF/WF APH)
R224		AERJ06J103R	CHIP RESISTOR	1	10K, 1/16W, 5% (EXCEPT S753BF/WF APH & S743BF/WF APH)
R490, R492		AERJ06J103R	CHIP RESISTOR	2	10K, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
R226		AERJ06J103R	CHIP RESISTOR	1	10K, 1/16W, 5% (S753BF/WF APH, S743BF/WF APH)
R221, R228, R342, R343		AERJ06J104R	CHIP RESISTOR	4	100K, 1/16W, 5%
R483, R484, R489		AERJ06J105R	CHIP RESISTOR	3	1M, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF WF APH)
R13		AERJ06J154R	CHIP RESISTOR	1	150K, 1/16W, 5% (T793SF)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
R485		AERJ06J154R	CHIP RESISTOR	1	150K, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
R488, R491		AERJ06J202R	CHIP RESISTOR	2	2K, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
R320		AERJ06J220R	CHIP RESISTOR	1	22Ω, 1/16W, 5%
R227		AERJ06J220R	CHIP RESISTOR	1	22Ω, 1/16W, 5% (EXCEPT T793SF, T783SF APH, T763SFAPH, S753BF/WF APH & S743BF/WF APH)
R181		AERJ06J220R	CHIP RESISTOR	1	22Ω, 1/16W, 5% (T793SF, T783SF APH, T763SF APH)
R181		AERJ06J360R	CHIP RESISTOR	1	36Ω, 1/16W, 5% (S753BF/WF APH, S743BF/WF APH)
R220, R222, R223		AERJ06J222R	CHIP RESISTOR	3	2.2K, 1/16W, 5%
R310		AERJ06J332R	CHIP RESISTOR	1	3.3K, 1/16W, 5%
R330		AERJ06J333R	CHIP RESISTOR	1	33K, 1/16W, 5%
R487		AERJ06J433R	CHIP RESISTOR	1	43K, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
R331, R341, R441		AERJ06J471R	CHIP RESISTOR	3	470Ω, 1/16W, 5%
R227, R496		AERJ06J471R	CHIP RESISTOR	1	470Ω, 1/16W, 5% (T793SF)
R360		AERJ06J472R	CHIP RESISTOR	1	4.7K, 1/16W, 5%
R480, R481		AERJ06J472R	CHIP RESISTOR	2	4.7K, 1/16W, 5% (T793SF, T783SF APH, T763 SF APH, S763BF/WF, S743BF/WF APH)
R340		AERJ06J473R	CHIP RESISTOR	1	47K, 1/16W, 5%
R440		AERJ06J512R	CHIP RESISTOR	1	5.1K, 1/16W, 5%
R486		AERJ06J684R	CHIP RESISTOR	1	680K, 1/16W, 5% (T793SF, T783SF APH, T763SF APH, S763BF/WF, S743BF/WF APH)
R10, R11, R311		AERDS2TJ102T	CARBON RESISTOR	3	1K, 1/4W, 5%
R12, R180		AERDS2TJ103T	CARBON RESISTOR	2	10K, 1/4W, 5%
R290		AERDS2TJ104T	CARBON RESISTOR	1	100K, 1/4W, 5%
VZ340		AEVNNV6TL103	VARISTOR	1	10KΩ
RY1		AEGG5G1A18	POWER RELAY	1	
RY2		AEBJQ1A18	POWER RELAY	1	
T10		AETP284U0AP	LOW VOLTAGE TRANSFORMER	1	
ZD10		AESZMTZJ5R6B	ZENER DIODE	1	
SW1-SW4, SW6-SW8, SW11-SW30		EVQ11L05R	SWITCH	27	T793SF

01/03
S-5X0, S-5X1
S-5X2, S-5X3
S-5X4, S-5X7
Printed in China